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**Part Number:** [0755860010](#)  
**Status:** **Active**  
**Overview:** ipass  
**Description:** 0.80mm (.031") Pitch, iPass™ I/O SMT Receptacle, Right Angle, External Application, 38 Circuit, 0.38µm (15µ") Gold (Au)

**Documents:**

[3D Model](#) [Product Specification PS-75586-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

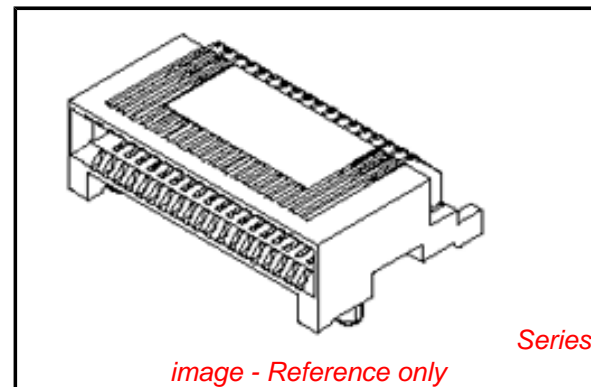
CSA LR19980

**General**

Product Family I/O Connectors  
 Series [75586](#)  
 Application Wire-to-Board  
 Component Type Receptacle  
 Overview [ipass](#)  
 Product Name iPass™, PCI Express\*, SAS  
 Type N/A

**Physical**

Boot Color N/A  
 Circuits (Loaded) 38  
 Circuits (maximum) 38  
 Color - Resin Black  
 Durability (mating cycles max) 50  
 Flammability 94V-0  
 Gender Female  
 Keying to Mating Part None  
 Lock to Mating Part None  
 Material - Metal High Performance Alloy (HPA)  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Number of Rows 2  
 Orientation Right Angle  
 PCB Locator Yes  
 PCB Retention None  
 PCB Thickness Recommended (in) 0.053 In  
 PCB Thickness Recommended (mm) 1.35 mm  
 Packaging Type Embossed Tape on Reel  
 Panel Mount No  
 Pitch - Mating Interface (in) 0.031 In  
 Pitch - Mating Interface (mm) 0.80 mm  
 Pitch - Term. Interface (in) 0.031 In  
 Pitch - Term. Interface (mm) 0.80 mm  
 Plating min: Mating (µin) 15.2  
 Plating min: Mating (µm) 0.38  
 Plating min: Termination (µin) 101.6  
 Plating min: Termination (µm) 2.54  
 Polarized to Mating Part Yes  
 Polarized to PCB Yes  
 Ports 1  
 Surface Mount Compatible (SMC) Yes



**EU RoHS**

**ELV and RoHS  
 Compliant**  
**REACH SVHC  
 Contains SVHC: No**  
**Halogen-Free  
 Status**

**China RoHS**



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 environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of  
 Compliance, [click here](#)

Please visit the [Contact Us](#) section for any  
 non-product compliance questions.

**Search Parts in this Series**

[75586Series](#)

**Mates With**

[74547 iPass™ Cable Assembly](#)

**Use With**

[74548 I/O Connectors](#)

Temperature Range - Operating	-40°C to +80°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No
Wire Insulation Diameter	N/A
Wire Size AWG	N/A

### **Electrical**

Current - Maximum per Contact	0.5A
Grounding to Panel	N/A
Shielded	No
Voltage - Maximum	30V AC (RMS)/DC

### **Solder Process Data**

Lead-free Process Capability	Reflow Capable (SMT only)
Process Temperature max. C	260

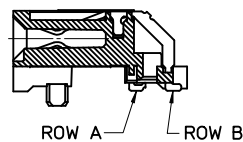
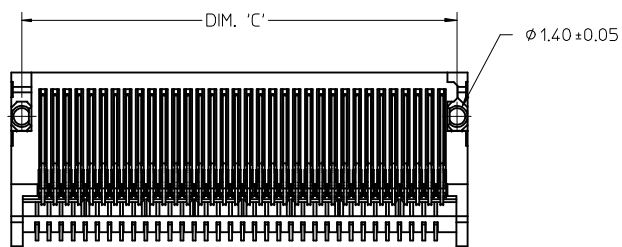
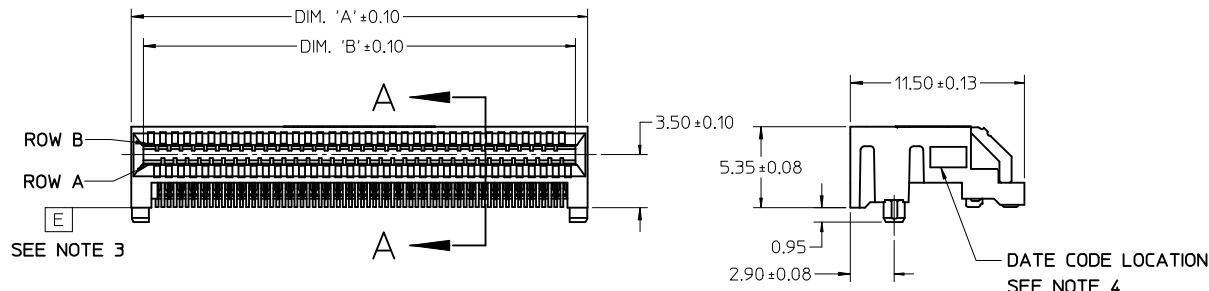
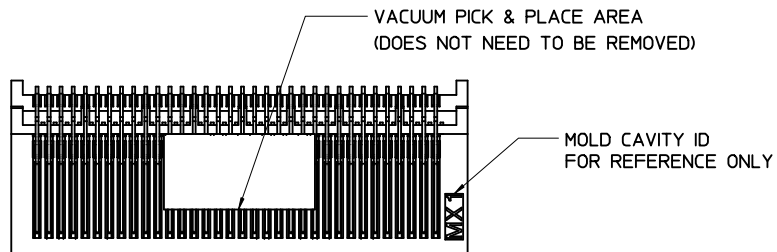
### **Material Info**

### **Reference - Drawing Numbers**

Application Specification	AS-75586-001
Packaging Specification	PK-75586-002, PK-75586-101
Product Specification	PS-75586-001
Sales Drawing	SD-75586-001

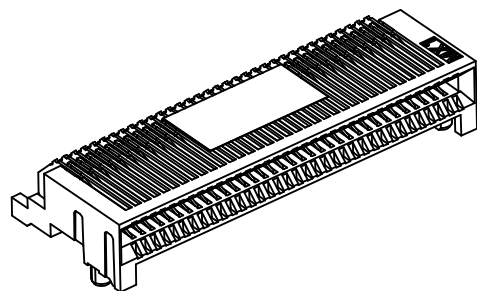
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SECTION A-A

68 CIRCUIT ASSEMBLY SHOWN



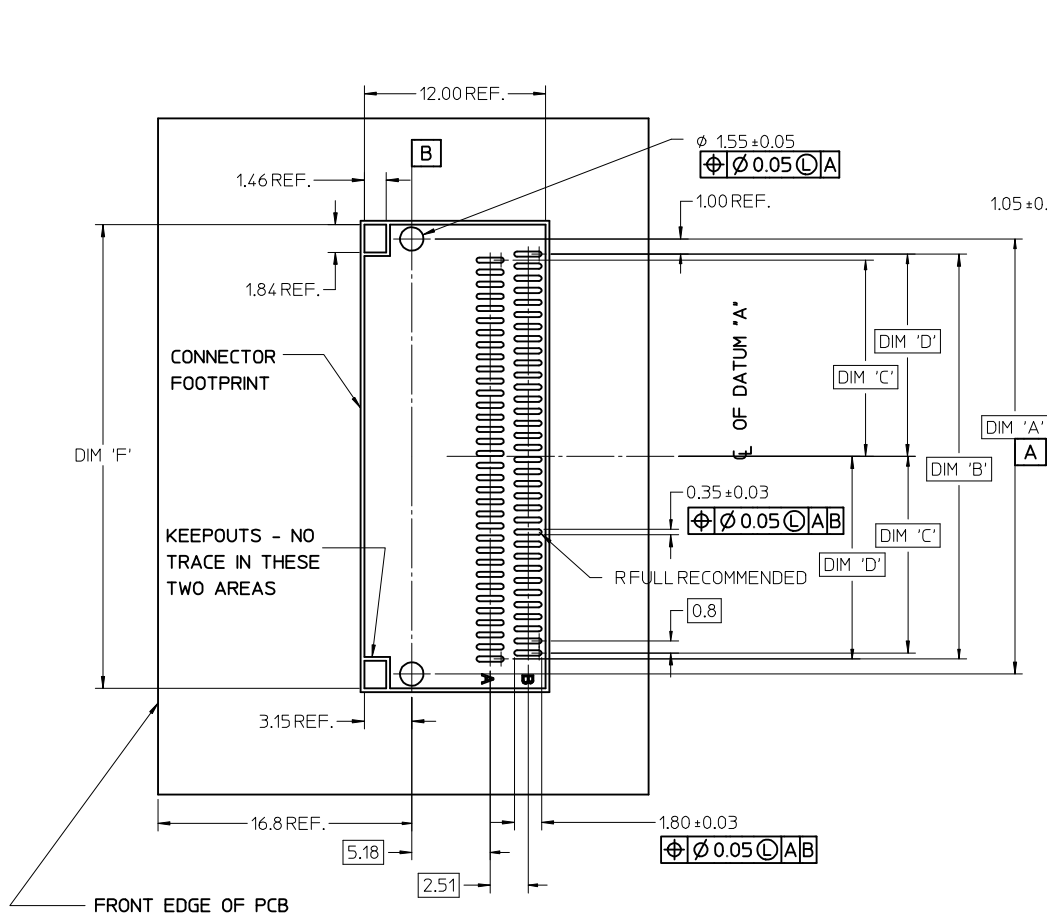
CIRCUIT SIZE	ITEM NUMBER	PLATING OPTION	DIM 'A'	DIM 'B'	DIM 'C'
26	75586-0004	OPTION 1	13.40	11.80	12.00
26	75586-0009	OPTION 2	13.40	11.80	12.00
36	75586-0003	OPTION 1	17.40	15.80	16.00
36	75586-0008	OPTION 2	17.40	15.80	16.00
38	75586-0010	OPTION 1	18.20	16.60	16.80
38	75586-0011	OPTION 2	18.20	16.60	16.80
50	75586-0001	OPTION 1	23.00	21.40	21.60
50	75586-0006	OPTION 2	23.00	21.40	21.60
68	75586-0002	OPTION 1	30.20	28.60	28.80
68	75586-0007	OPTION 2	30.20	28.60	28.80

NOTES

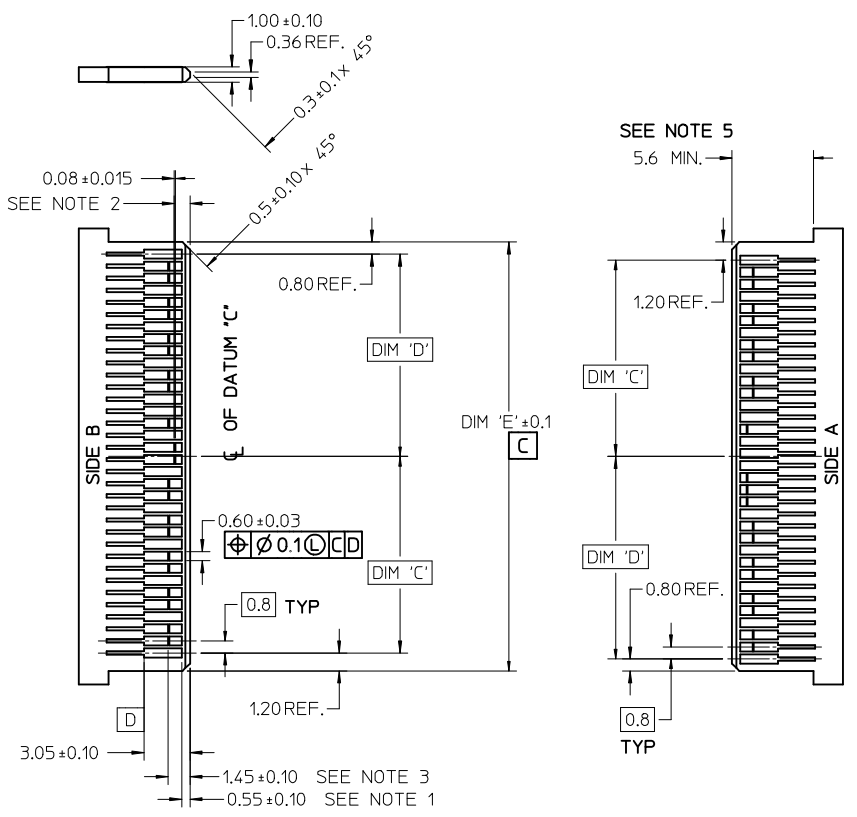
- MATERIAL:  
HOUSING - HIGH TEMPERATURE THERMOPLASTIC GLASS FILLED, UL 94V-0, BLACK  
TERMINALS - COPPER ALLOY
- PLATING:  
OPTION 1  
CONTACT AREA - 0.38 μm MIN GOLD OVER 2.54 μm MIN NICKEL  
SOLDER FOOT AREA - 2.54 - 5.09 μm TIN OVER 2.54 μm MIN NICKEL.  
OPTION 2  
CONTACT AREA - 0.76 μm MIN GOLD OVER 2.54 μm NICKEL  
SOLDER AREA - 2.54 - 5.09 μm TIN OVER 2.54 μm MIN NICKEL.
- TERMINAL SOLDER FEET TO BE COPLANAR WITHIN 0.10/004 MEASURED FROM FRONT HOUSING STAND OFF (DATUM E)
- DATE CODE: 4 DIGIT (3 DIGIT DATE, 1 DIGIT YEAR)
- CIRCUIT IDENTIFIER: SEE APPROPRIATE INDUSTRY SPECIFICATION FOR LOCATION OF PIN 1
- TO BE USED WITH EXTERNAL CABLES (74546 & 74547 SERIES) AND GUIDE FRAMES (74540 & 74548 SERIES)
- TESTER/ANALYZER CABLES AVAILABLE (74557 & 74558 SERIES)
- PACKAGED PER PACKAGING SPECIFICATION: PK-75586-002
- CONFORMS TO PRODUCT SPECIFICATION: PS-75586-001
- THIS PART CONFORMS TO CLASS C REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

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<b>UPDATE TOLERANCES</b> EC NO: UCP2010-0536 IDRW:KLANG 2009/08/27 CHKD: 2009/09/29 APPR:MBANK IS 2009/09/30 REV:	<b>QUALITY SYMBOLS</b> ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				DRAWN BY DATE KREGNIER 07/28/04		TITLE		<b>I-PASS R/A CONNECTOR EXTERNAL ASSEMBLY .8 MM PITCH I/O</b>	
				CHECKED BY DATE JLONG 07/29/04		MATERIAL NO. SD-75586-001			
				APPROVED BY DATE RNELSON 07/30/04		SIZE C		DOCUMENT NO. SD-75586-001	



68 CIRCUIT SHOWN



- NOTES:
1. PAD CONFIGURATION FOR FIRST MATE.
  2. PAD CONFIGURATION FOR SECOND MATE.
  3. PAD CONFIGURATION FOR THIRD MATE (HIGH SPEED SIGNALS).
  4. FOR PIN ASSIGNMENTS AND MATING SEQUENCE (1ST, 2ND, 3RD), SEE APPLICABLE SPECIFICATION.
  5. MINIMUM STEP REQUIRED IF PCB MADE WIDER THAN CARD TOUNGE.
  6. SEE 74540 OR 74548 SERIES FOR GUIDE FRAME FOOT PRINT AND KEEP OUT AREA.

PEG TO PEG  
 FIRST PAD TO LAST PAD  
 CENTERLINE TO PAD  
 CENTERLINE TO PAD  
 MODULE BOARD WIDTH  
 CONNECTOR WIDTH

CIRCUIT SIZE	TERM/SIDE 'N'	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'
26	13	12.00	10.00	4.60	5.00	11.60	13.90
36	18	16.00	14.00	6.60	7.00	15.60	17.90
38	19	16.80	14.80	7.00	7.40	16.40	18.70
50	25	21.60	19.60	9.40	9.80	21.20	23.50
68	34	28.80	26.80	13.00	13.40	28.40	30.70

SEE SHEET 1 EC NO: UCP2010-0536 DRINKLANG 2009/08/27 CHKD: 2009/09/29 APPR: MBANAKIS 2009/09/30	QUALITY SYMBOLS 
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GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± 1/2°	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS
---	--

DIMENSION STYLE <b>MM ONLY</b> DRAWN BY DATE KREGNIER 07/28/04 CHECKED BY DATE JLONG 07/29/04 APPROVED BY DATE RNELSON 07/30/04	SCALE <b>4:1</b> DESIGN UNITS <b>METRIC</b> THIRD ANGLE PROJECTION
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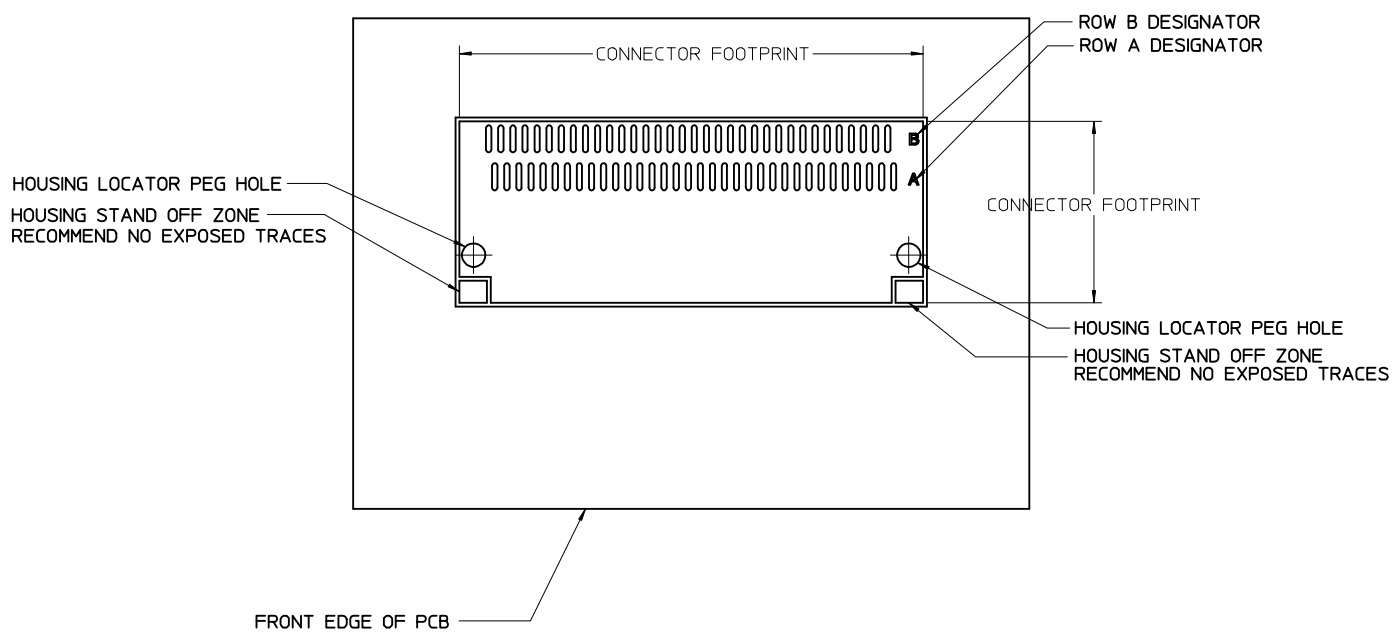
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**I-PASS R/A CONNECTOR EXTERNAL ASSEMBLY .8 MM PITCH I/O**

**MOLEX INCORPORATED**

DOCUMENT NO. **SD-75586-001** SHEET NO. **2 OF 3**

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SEE SHEET 1 EC NO: UCP2010-0536 DRW: DRWINKLANG 2009/08/27 CHKD: 2009/09/29 APPR: MBANAKIS 2009/09/30	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	▽=0 ▽=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± 1/2°	MM ONLY	4:1	METRIC	DRAWN BY DATE KREGNIER 07/28/04 CHECKED BY DATE JLONG 07/29/04 APPROVED BY DATE RNELSON 07/30/04	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART	TITLE I-PASS R/A CONNECTOR EXTERNAL ASSEMBLY .8 MM PITCH I/O		MOLEX MOLEX INCORPORATED DOCUMENT NO. SD-75586-001	SHEET NO. 3 OF 3
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Электрон  
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